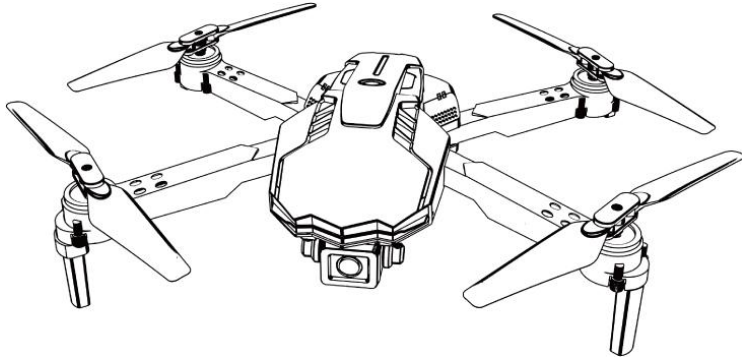# Folding drone user manual

*Please read the instructions carefully before flying and keep them in a safe place for future reference.

1. Charge the drone after receiving it;
2. Novices must install a protective frame;
3. Before taking off, place the drone on level ground and press one button on the remote control to calibrate, then press one button to take off;
4. If serious deviation still occurs, you can perform fine-tuning in the opposite direction according to the instruction manual;
5. Do not fly out of sight, and do not take off when the wind interferes with the drone;
6. Mobile phone APP control and remote control control cannot be used for flight control at the same time;
7. The obstacle avoidance function is only an auxiliary function and cannot be turned on in a small place or for a long time;
8. Older versions of mobile phones may not be able to connect to WIFI. You can try changing your mobile phone;
9. Please read the instruction manual carefully and scan the QR code to watch the tutorial video before use.

Remote control button description

one-key takeoff/ One-key landing
Speed gear
long press headless mode /short press fine-tuning
roll
obstacle avoidance function
emergency stop
left joystick: Up/Down/ Left Rotation/ Right Rotation
switch
photo/ video
one-key calibration
right joystick: forward/back/ left/right

One-click calibration (needs to be calibrated 3-5 times before takeoff)

Description of drone parts

The drone uses the 2.4G frequency band. The drone can be controlled by the remote control to achieve functions such as flight, roll, fine-tuning, one-button takeoff, one-button landing, speed, headless mode, correction, height setting, obstacle avoidance and other functions.

① Case upper cover
② Chassis lower cover
③ Wind leaves
③-1 Fan blade A
③-2 Fan blade B
④ Arm   ⑤ Battery
⑥ Motor   ⑦ Camera

Note: The white wire at the bottom is the WiFi antenna, please do not cut it to avoid affecting WiFi reception and connection.

Accessories

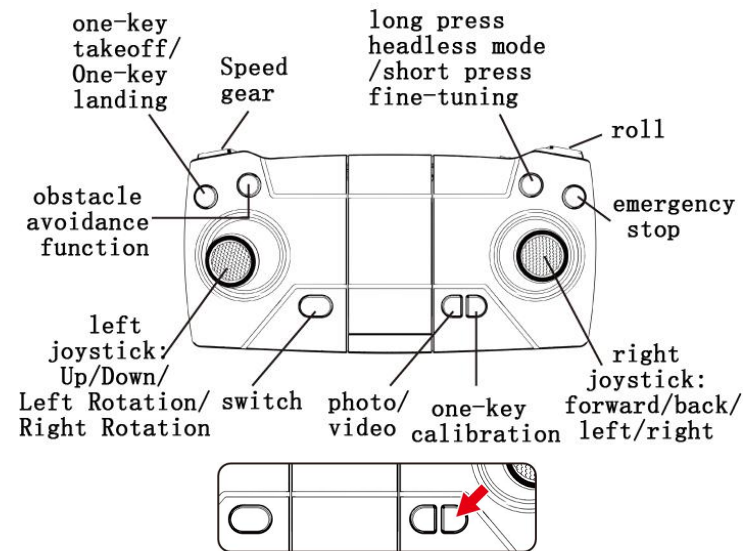|	
Drone*1 (battery included)	Remote control*1
A B	
Spare fan blades A*2 B*2	Protective frame*4
USB charging cable*1	Phillips screwdriver*1	Manual *1

Note: Please carefully count the accessories and their quantities (such as accessories list) If found to be incomplete, please provide proof of purchase and contact the seller promptly for replacement.

Ready to fly

1.Choose the flight environment

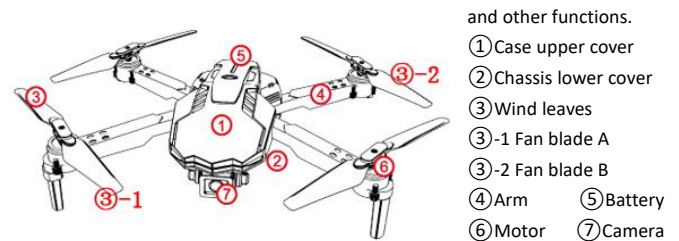|	
	Flying indoors: Please choose an open space where there are no obstacles, people or pets nearby.
	Flying outdoors: Please choose clear and windless weather or breezy weather to fly.
	When flying, please keep the aircraft within sight and away from obstacles, high-voltage lines, trees, crowds, etc.
	Never fly in extremely harsh environments, such as excessive cold, overheating, strong winds, heavy rain, etc.

2. Open the arm

Open wing sequence:
① Open the front arm first. (on the camera side)
② Open the rear arm again and fold it in the opposite order.

3. Installation of protective frame

Align the protective frame with the machine arm from the bottom and install it (Picture 1), press it into place, and then press the position (Picture 2) upward to fasten the protective frame.
【Novices must install a protective frame】

4. Installation of fan blades

Align the fan blades with the motor shaft and install them (the marks on the machine arm and the fan blades must be consistent), and tighten the screws clockwise.
【Be careful to distinguish the A/B fan blades when replacing them. Installing them incorrectly will result in failure to take off】

5. How to charge the body battery

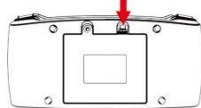|	
A. Press the position indicated by the arrow and pull the battery out to take out the battery.	B. USB charger connects the battery and USB charging interface

Notice:
When you receive the drone, charge it first. The LED light will be on when charging, and the LED light will go off when charging is completed. The charging time is about 2.5 hours.

Battery usage precautions

● If the battery leaks, avoid contact of the liquid with skin and eyes.
● If the charger emits suspicious smell, noise or smoke, please unplug the power source immediately.
● Please use the special charger supplied by the original factory to charge.
● Do not charge swollen, leaking or damaged batteries.
● Do not overcharge the battery. When the battery is fully charged, please unplug the charger.
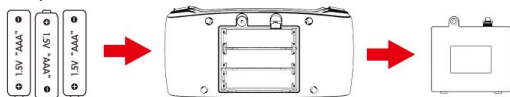● Do not charge near flammable or conductive surfaces.

Remote control battery installation and charging methods

①Open the battery cover of the remote control

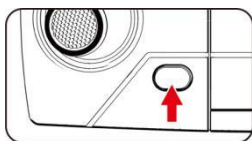②Installation of remote control battery
AA alkaline battery

Open the battery cover and insert 3 AA batteries correctly according to the electrode instructions. (You need to bring your own battery)

Notice:
1. When installing the battery, you must be sure to identify the positive and negative poles of the battery, and cannot install it backwards.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries.

Linking the remote control to the drone

After turning on the power switch of the fuselage, place the drone on a horizontal surface, and then turn on the remote control switch. The frequency will be automatically linked.

After two beeps, the remote control indicator light and the drone LED light are always on or breathing, then the frequency linking is completed.

【 The remote controller and mobile phone cannot control the aircraft at the same time】

Calibration of remote

If the drone cannot rise vertically or deviate when taking off, you can calibrate the drone and press the "One-key Calibration" button. At this time, the drone's indicator light flashes quickly. When the indicator light stays on, the calibration is completed. When executing the correction command, it must be executed in a stable state parallel to the horizontal line, otherwise the correction effect will be affected.
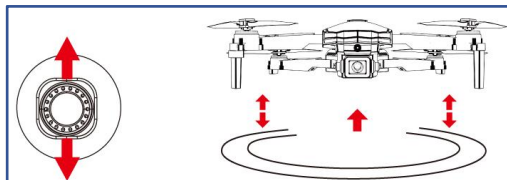
【 It is recommended that novices calibrate 3-5 times before taking off.】
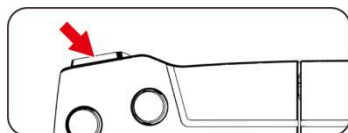
Hover

After using the left joystick to raise the drone, release the left joystick and the drone will still hover at the height when you release the joystick.
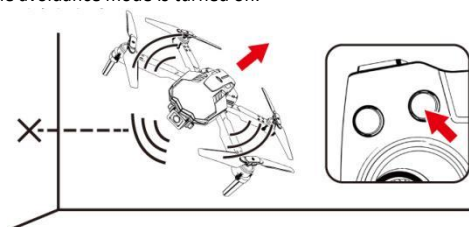
left joystick

Speed gear

Lightly press the button to control the speed of the drone. One "beep" sound is the slow speed. Press the button again. Two "beep" and "beep" sounds are the medium speed. "Beep", "beep" and "beep" are the fast speed. Then the cycle continues. . The default speed of the drone is low speed.

Obstacle avoidance mode

Press the button to turn on the obstacle avoidance mode, and press it again to turn off the obstacle avoidance mode. Three-sided obstacle avoidance, according to the direction of the remote control, it will stop when encountering obstacles.
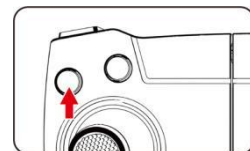
It is recommended to enable the obstacle avoidance function in an indoor flight environment with a length and width of more than 6 meters x 6 meters. When the obstacle avoidance mode of the drone is turned on, the speed will slow down and the fast gear cannot be turned on. Therefore, it is recommended to fly in a large indoor space when the obstacle avoidance mode is turned on.

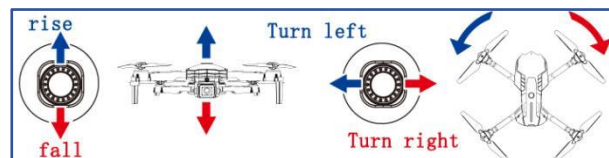## Start flying

1. One-key takeoff and one-key landing

Press the "one-key takeoff" button, and the drone's blades will rotate and automatically fly to a height of about 1.5 meters. Press the button again to land.
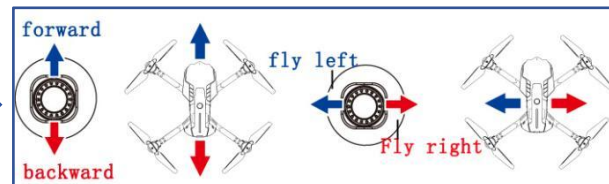
2. Basic flying

The left joystick controls flight height and left and right turning directions, and the right joystick controls forward, backward, and left and right flight directions.
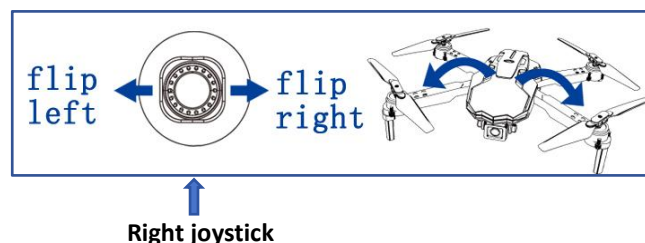
Left joystick

rise
fall
Turn left
Turn right

Right joystick
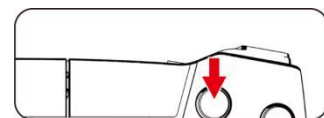
forward
backward
fly left
Fly right

Roll

After the drone flies to a height of more than 3 meters, click the roll button and move the right joystick (rudder) to the left or right to achieve a roll in this direction.

flip left
flip right

Right joystick

Headless mode

After the drone is paired with the frequency, the drone defaults to the normal mode. At this time, the drone's indicator light is always on. After short pressing the headless function key on the remote control, the remote control emits a "beep" sound to indicate entry. Irrelevant state, press the headless function key again and hear a long "beep" sound to exit the headless state.
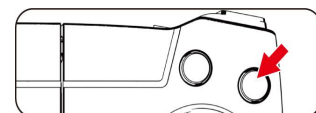
In the headless state, the operator does not need to identify the direction of the drone's nose, and only needs to control the aircraft according to the direction of the joystick of the remote controller.

emergency stop

In case of emergency, long press this button to stop the drone from flying.

【 [It is not recommended to use it when the aircraft is at a high altitude. It may fall from a high altitude and cause damage, so please use it with caution]】
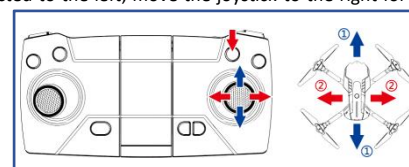
Fine-tuning function

When the aircraft spins in the air or leans in a different direction, fine-tuning correction actions can be used. Press the fine-tuning button and hear a "beep" sound, then move the operating stick [directional lever] in the opposite direction to adjust and calibrate until the aircraft does not fly sideways. If no operation is performed for 5-6 seconds after entering fine-tuning, the fine-tuning function will automatically exit.

【For example: when the flight is deflected to the left, move the joystick to the right for fine adjustment】

①Forward/backward fine adjustment
②Left/right fly fine adjustment

Notice:

"Ground effect reaction" means that when the drone flies lower, the impact of ground reaction will be greater. When the drone is within 30 cm from the ground, the drone will be affected by the vortex of its own blades and become unstable.

FAQ questions and answers

Problem	Cause	Solution
Control failure	Drone battery not connected	Connect the drone battery in the correct direction
	The wind is too strong	Do not fly when there is wind. Wind may cause limitations to the drone or prevent you from controlling the flight.
Drone cannot be raised	The rotation speed of main blades is too slow.	Push up the throttle joystick.
	The battery of the quadrocopter is not fully charged.	Please full charge the quadcopter.
Landing too soon	Pulling the left joystick back too quickly	Slowly pull back the power joystick to allow the drone to land slowly
Out of control	Beyond the effective controlling distance.	1. Ensure that the remote control distance is within 80-100m, and the WIFI control distance is within 20-30m. 2. When losing control, it is recommended to land with one click or make an emergency stop.
After the aircraft is connected to the battery, the indicator light continues to flash and there is no response to operations.	The 2.4G frequency binding between the aircraft and the remote controller was unsuccessful.	Turn on the aircraft first, then the remote controller, and the frequency will be automatically linked.
After the impact, the aircraft took off again and flew around randomly without control.	The acceleration sensor lost balance due to impact	After letting it sit for 5-10 seconds, press the one-key calibration button again to calibrate.
The aircraft always deviates in one direction when flying	The center point of the gyroscope on the aircraft is wrong	Restart the computer for horizontal calibration or refer to the fine-tuning function for fine-tuning in the opposite direction.
The motor does not rotate when the throttle stick is pushed. The aircraft indicator light keeps flashing	Aircraft battery is low	Recharge the battery or replace it with a fully charged battery
WIFI signal not found	Camera plug loose	Disassemble the bottom camera and reconnect the wires

Basic instructions for drones

1.UA level:

The X6 drone is a C0-level toy drone. This type of drone is usually designed for entertainment and leisure activities and is suitable for beginners or young flying enthusiasts. Drones in the C0 category usually have more basic flight functions and simple operating systems.

2. UA mass and maximum take-off mass (MTOM):

X6 is a lightweight remote control folding aircraft with a take-off weight of 98 grams.

3. Maximum flight speed and maximum flight altitude of UAV:

The maximum flight speed is 1.5 m/s and the maximum flight altitude is 50 m.

4. General characteristics of the allowed payload, including mass dimensions, interface with UA, and other possible restrictions:

The B6 drone does not have a load-carrying function. This means it cannot carry additional equipment or weight, such as cameras or other sensors. It is designed primarily for the basic flying experience.

5. Remote control of UA equipment and software control methods:

The B6 drone uses 2.4G frequency for remote control and supports operation via remote control. This control method provides flexible operation options, and users can choose to use a traditional remote control or control through an application on a smart device.

6. UA behavior description when data link is lost:

The maximum height that the B6 drone can reach above the take-off point is 50 meters. Exceeding this height may cause the drone to descend out of control, and the operator cannot control the drone during the descent, which may result in the drone being lost. This safety feature reminds users to pay attention to altitude restrictions when flying to avoid flight risks.

7. Applicable ages for drones:

This aircraft is only suitable for operation by persons over 14 years of age.

8. Operation restrictions and operational risks of drones:

To ensure flight safety, please try to avoid airports, highways, train stations, subway stations, and densely populated urban areas. Do not use the aircraft in extremely bad weather such as strong winds or thunderstorms, and fly within the visual range at night.

9. Drone operation instructions:

Please refer to the manual for details. Please use this aircraft under the guidance of the manual.